

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend claims 1-3, 5-6, 8-9, 11-12, 14-15 and 17-18 and add new claims 20-25 as follows:

LISTING OF CLAIMS:

1. (Currently Amended) An image processor ~~for detecting a predetermined pattern made of a specific color in input image data~~ comprising:

~~still image input device inputting still color image data;~~

a first decision controller which decides whether input color ~~[[data]]~~ gradation value of a target pixel exist in first ranges;

a second decision controller which decides whether differences between color ~~[[data]]~~ gradation value of the target pixel and those of pixels adjacent thereto exist in second ranges different from the first ranges; and

a color decision controller which decides that the target pixel has a specified color when the first decision controller decides that the color ~~[[data]]~~ gradation value of the target pixel exist in the first ranges and the second decision controller decides that the differences exist in the second ranges; ~~and~~

~~an extraction controller which extracts pixels having the specific color decided by said color decision controller and detects an image having the predetermined pattern in the extracted pixels.~~

2. (Currently Amended) The image processor according to claim 1, wherein said second decision controller determines a maximum value among differences of color ~~[[data]]~~ gradation value between the target pixel and the adjacent pixels thereof and decides whether the maximum value exists in the second ranges.

3. (Currently Amended) The image processor according to claim 1, further comprising an edge detector which calculates differences in ~~a plurality of color component data of the color~~ gradation value between the target pixel and a plurality of ~~[[the]]~~ adjacent pixels thereof in a direction and decides a position of an edge based on the differences.

4. (Canceled)

5. (Currently Amended) A method of image processing ~~for detecting a predetermined pattern made of a specific color in input image data~~ comprising the steps of:

~~inputting still color image data;~~

deciding whether input color ~~[[data]]~~ gradation value of a target pixel exist in first ranges;

deciding whether differences between color ~~[[data]]~~ gradation value of the target pixel and those of pixels adjacent thereto exist in second ranges different from the first ranges;

deciding that the target pixel has a specified color when the color ~~[[data]]~~
gradation value of the target pixel is decided to exist in the first ranges and the
differences are decided to exist in the second ranges; and

~~extracting pixels having the specified color and detecting an image having the
predetermined pattern in the extracted pixels.~~

6. (Currently Amended) The method according to claim 5, wherein a
maximum value among differences of color ~~[[data]]~~ gradation value between the
target pixel and the adjacent pixels thereof are obtained and it is decided whether
the maximum value exists in the second ranges.

7. (Canceled)

8. (Currently Amended) A recording medium to be executed by a computer
storing a program ~~for detecting a predetermined pattern made of a specific color in
input image data~~ comprising the steps of:

~~inputting still color image data;~~

deciding whether input color ~~[[data]]~~ gradation value of a target pixel exist in
first ranges;

deciding whether differences between color ~~[[data]]~~ gradation value of the
target pixel and those of pixels adjacent thereto exist in second ranges different from
the first ranges;

deciding that the target pixel has a specified color when the color [[data]] gradation value of the target pixel is decided to exist in the first ranges and the differences are decided to exist in the second ranges; and

~~extracting pixels having the specified color and detecting an image having the predetermined pattern in the extracted pixels.~~

9. (Currently Amended) The recording medium according to claim 8, wherein a maximum value among differences of color [[data]] gradation value between the target pixel and the adjacent pixels thereof are obtained and it is decided whether the maximum value exists in the second ranges.

10. (Canceled)

11. (Currently Amended) An image processor ~~for detecting a predetermined pattern made of a specific color in input image data~~ comprising:

~~still input device inputting still color image data;~~

a first decision controller which decides whether input color [[data]] gradation value of a target pixel exist in first ranges;

a second decision controller which performs calculation on the input color [[data]] gradation value of the target pixel in linear operation of a plurality of color component values and decides whether results of the calculation exist in second ranges different from the first ranges;

a color decision controller which decides that the target pixel has a specified color when the first decision controller decides that the color [[data]] gradation value

of the target pixel exist in the first ranges and the second decision controller decides that the results exist in the second ranges; and

~~an extraction controller which extracts pixels having the specific color decided by said color decision controller and detects an image having the predetermined pattern in the extracted pixels.~~

12. (Currently Amended) The image processor according to claim 11, wherein ~~the color data includes a plurality of color component data and~~ said second decision controller calculates differences between the color component ~~[[data]]~~ gradation value of the target pixel and decides whether the differences exist in the second ranges.

13. (Canceled)

14. (Currently Amended) A method of image processing ~~for detecting a predetermined pattern made of a specific color in input image data~~ comprising the steps of:

~~inputting still color image data;~~

deciding whether input color ~~[[data]]~~ gradation value of a target pixel exist in first ranges;

performing calculation on the input color ~~[[data]]~~ gradation value of the target pixel in linear operation of a plurality of color component values and decides whether results of the calculation exist in second ranges different from the first ranges;

deciding that the target pixel has a specified color when the color [[data]] gradation value of the target pixel are decided to exist in the first ranges and the results are decided to exist in the second ranges; and

~~extracting pixels having the specified color and detecting an image having the predetermined pattern in the extracted pixels.~~

15. (Currently Amended) The method according to claim 14, wherein the ~~color data includes a plurality of color component data~~, differences between the color component [[data]] gradation value of the target pixel are obtained in the calculation on the input color [[data]] gradation value and it is decided whether the differences exist in the second ranges.

16. (Canceled)

17. (Currently Amended) A recording medium to be executed by a computer storing a program ~~for detecting a specific pattern made of a specific color in input image data~~ comprising the steps of:

~~inputting still color image data;~~

deciding whether input color [[data]] gradation value of a target pixel exist in first ranges;

performing calculation on the input color [[data]] gradation value of the target pixel in linear operation of a plurality of color component values and decides whether results of the calculation exist in second ranges different from the first ranges;

deciding that the target pixel has a specified color when the color [[data]] gradation value of the target pixel are decided to exist in the first ranges and the results are decided to exist in the second ranges; and

~~extracting pixels having the specified color and detecting an image having the predetermined pattern in the extracted pixels.~~

18. (Currently Amended) The method according to claim 17, wherein the color [[data]] gradation value includes a plurality of color component [[data]] gradation value, differences between the color component [[data]] gradation value of the target pixel are obtained in the calculation on the input color [[data]] gradation value and it is decided whether the differences exist in the second ranges.

19. (Canceled)

20. (New) The image processor according to claim 1, further comprising:
an extraction controller which extracts an element having a predetermined shape based on the decision by said color decision controller; and
a pattern detector which detects a specified pattern in the image value discriminating whether the elements extracted by said extraction controller have a predetermined relationship between them.

21. (New) The method according to claim 5, further comprising the steps of:
extracting an element having a predetermined shape based on the decision that the target pixel has a specified color; and

detecting a specified pattern in the image value by discriminating whether the extracted elements have a predetermined relationship between them.

22. (New) The recording medium according to claim 8, the program further comprising the steps of:

extracting an element having a predetermined shape based on the decision that the target pixel has a specified color; and

detecting a specified pattern in the image value by discriminating whether the extracted elements have a predetermined relationship between them.

23. (New) The image processing according to claim 11, further comprising:
an extraction controller which extracts an element having a predetermined shape based on the decision by said color decision controller; and

a pattern detector which detects a specified pattern in the image value discriminating whether the elements extracted by said extraction controller have a predetermined relationship between them.

24. (New) The method according to claim 14, further comprising the steps of:
extracting an element having a predetermined shape based on the decision that the target pixel has a specified color; and

detecting a specified pattern in the image value by discriminating whether the extracted elements have a predetermined relationship between them.

25. (New) The method according to claim 17, the program further comprising the steps of:

extracting an element having a predetermined shape based on the decision that the target pixel has a specified color; and

detecting a specified pattern in the image value by discriminating whether the extracted elements have a predetermined relationship between them.